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[Rob V. van Nieuwpoort](#), [Jason Maassen](#), [Rutger Hofman](#), [Thilo Kielmann](#), [Henri E. Bal](#)
 November 2002 **JGI '02**: Proceedings of the 2002 joint ACM-ISCOPE conference on Java
Publisher: ACM

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In computational grids, performance-hungry applications need to simultaneously tap computational power of multiple, dynamically available sites. The crux of designing g environments stems exactly from the dynamic availability of compute ...

Keywords: Java, grid computing, performance, portability**2** [Compact Java binaries for embedded systems](#)[Derek Rayside](#), [Evan Mamas](#), [Erik Hons](#)

November 1999 **CASCON '99**: Proceedings of the 1999 conference of the Centre for Adv
 Collaborative research

Publisher: IBM Press

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Embedded systems bring special purpose computing power to consumer electronics c smartcards, CD players and pagers. Java is being aggressively targeted at such syste initiatives such as the Java 2 Platform, Micro Edition, which introduces ...

3 [*J: a tool for dynamic analysis of Java programs](#) [Bruno Dufour](#), [Laurie Hendren](#), [Clark Verbrugge](#)

October 2003 **OOPSLA '03**: Companion of the 18th annual ACM SIGPLAN conference on programming, systems, languages, and applications

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We describe a complete system for gathering, computing and presenting dynamic me programs. The system itself was motivated from our real goals in understanding prog as compiler/runtime developers, and so solves a number of ...


Keywords: Java, dynamic metrics, execution traces, profiling, program analysis, sof**4** [ObjectGlobe: Ubiquitous query processing on the Internet](#)[R. Braumandl](#), [M. Keidl](#), [A. Kemper](#), [D. Kossmann](#), [A. Kreutz](#), [S. Seltzsam](#), [K. Stocker](#)

Publisher: Springer-Verlag New York, Inc.Full text available:  Pdf (251.44 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited](#)**Bibliometrics:** Downloads (6 Weeks): 6, Downloads (12 Months): 74, Citation Count: 19

We present the design of ObjectGlobe, a distributed and open query processor for Int sources. Today, data is published on the Internet via Web servers which have, if at a query processing capabilities. The goal of the ObjectGlobe ...

Keywords: Cycle-, function- and data provider, Distributed query processing, Open Quality of service, Query optimization, Security


5 [An innovative design approach to build virtual environment systems](#)

 [M. Oliveira, J. Crowcroft, M. Slater](#)
May 2003 **EGVE '03:** Proceedings of the workshop on Virtual environments 2003**Publisher:** ACMFull text available:  Pdf (781.01 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited](#)**Bibliometrics:** Downloads (6 Weeks): 3, Downloads (12 Months): 43, Citation Count: 3

A Virtual Environment (VE) presents a complex problem with interesting non-trivial c software development. The majority of existing systems supporting VE are based on architectures, making maintenance and software reuse difficult ...

Keywords: component frameworks, java, online games, system design, virtual enviro reality

6 [Runtime safety analysis of multithreaded programs](#)

 [Koushik Sen, Grigore Rosu, Gul Agha](#)
September 2003 **ESEC/ FSE-11:** Proceedings of the 9th European software engineering c jointly with 11th ACM SIGSOFT international symposium on Foundations engineering**Publisher:** ACM  [Request Permissions](#)Full text available:  Pdf (583.43 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited](#)**Bibliometrics:** Downloads (6 Weeks): 9, Downloads (12 Months): 74, Citation Count: 13


Foundational and scalable techniques for runtime safety analysis of multithreaded pro explored in this paper. A technique based on vector clocks to extract the causal depe state updates from a running multithreaded program is ...

Keywords: JMPaX, Java, LTL, multithreaded program, predictive analysis, runtime n analysis, vector clock

Also published in:

September 2003 **SIGSOFT Software Engineering Notes** Volume 28 Issue 5

7 [MJ: a rational module system for Java and its applications](#)

 [John Corwin, David F. Bacon, David Grove, Chet Murthy](#)
November 2003 **OOPSLA '03:** Proceedings of the 18th annual ACM SIGPLAN conference oriented programing, systems, languages, and applications**Publisher:** ACM  [Request Permissions](#)Full text available:  Pdf (208.83 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited](#)**Bibliometrics:** Downloads (6 Weeks): 5, Downloads (12 Months): 32, Citation Count: 6


While Java provides many software engineering benefits, it lacks a coherent module system; instead it provides only packages (which are primarily a name space mechanism) and classes (which are very low-level). As a result, large Java applications ...

Keywords: Java, components, language design, modularity

Also published in:

November 2003 **SIGPLAN Notices** Volume 38 Issue 11

8 [Proof linking: modular verification of mobile programs in the presence of lazy, dynamic linking](#)

 Philip W. L. Fong, Robert D. Cameron

October 2000 **Transactions on Software Engineering and Methodology (TOSEM)**, Volume 9 Issue 4

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (233.60 KB)


Additional Information: [full citation](#), [abstract](#), [references](#), [cited references](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 32, Citation Count: 1

Although mobile code systems typically employ link-time code verifiers to protect hosts from potentially malicious code, implementation flaws in the verifiers may still leave them vulnerable to attack. Compounding the inherent complexity ...


Keywords: Java, correctness conditions, dynamic linking, mobile code, modularity, platform safety, verification protocol, virtual machine architecture

9 [Reducing stack usage in Java bytecode execution](#)

 Wes Munsil, Chia-Jiu Wang

March 1998 **SIGARCH Computer Architecture News**, Volume 26 Issue 1

Publisher: ACM


Full text available:  Pdf (1.04 MB)

Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 9, Citation Count: 0

For many years, the Tomasulo method of dynamically scheduling instructions for execution on a load/store processor has been known and used. This paper presents an adaptation of the method to a stack-based processor architecture, and illustrates ...

10 [A java virtual machine architecture for very small devices](#)

 Nik Shaylor, Douglas N. Simon, William R. Bush

July 2003 **LCTES '03: Proceedings of the 2003 ACM SIGPLAN conference on Language-based Techniques for Embedded Systems**

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (182.85 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited references](#)

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The smallest complete Java™ virtual machine implementations in use today are based on the standard and are deployed in mobile phones and PDAs. These implementations require kilobytes. Smaller Java-like implementations also ...

Keywords: CLDC, JVM, java, limited-memory devices, next generation smart cards

Also published in:


July 2003 **SIGPLAN Notices** Volume 38 Issue 7

Proxy compilation of dynamically loaded Java classes with Mojo

Matt Newsome, Des Watson

July 2002 **LCTES/ SCOPES '02**: Proceedings of the joint conference on Languages, compilers for embedded systems: software and compilers for embedded systems

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (358.62 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 29, Citation Count: 1


Interest in Java implementations for resource-constrained environments such as emt has been tempered by concerns regarding its efficiency. Current native compilers for dramatic increases in efficiency, but have poor support for ...

Keywords: AOT, JIT, adaptive compilation, ahead-of-time, dynamic class loading, hot time, native compilation, proxy compilation, remote compilation

Also published in:

July 2002 **SIGPLAN Notices** Volume 37 Issue 7

12 Performance monitoring of java applications

 M. Harkema, D. Quartel, B. M. M. Gijsen, R. D. van der Mei

July 2002 **WOSP '02**: Proceedings of the 3rd international workshop on Software and

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (219.69 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited](#)

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 113, Citation Count: 3

Over the past few years, Java has evolved into a mature platform for developing enterprise applications. A critical factor for the commercial success of these applications is end-user performance, e.g., in terms of response times, throughput and availability. ...



Keywords: performance measurement and monitoring of java applications

13 Java as a specification language for hardware-software systems

Rachid Helalhel, Kunle Olukotun

November 1997 **ICCAD '97**: Proceedings of the 1997 IEEE/ACM international conference on computer-aided design

Publisher: IEEE Computer Society

Full text available:  [Publisher Site](#),  Pdf (46.54 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [terms](#)





Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 14, Citation Count: 29

The specification language is a critical component of the hardware-software co-design. It is used for functional validation and as a starting point for hardware-software partitioning synthesis. This paper proposes the Java programming ...

Keywords: java, specification languages, hardware-software co-design

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